

1. (Currently Amended) A UV radiation curable primer coating composition comprising
  - a. 5 to 50 % by weight of one or more compounds containing one ethylenically unsaturated free-radically polymerizable group per molecule
  - b. 5 to 50% by weight of one or more compounds containing two or more ethylenically unsaturated free radically polymerizable groups per molecule
  - c. 1.0 to 60% by weight of one or more pigments, fillers and or dyes
  - d. 0.1 to 0.95 % by weight photoinitiators
  - e. 0 to 20% by weight of volatile organic solvent and
  - f. 0.1 to 10% by weight of additives,
 wherein said coating is curable to a non-tacky surface under a UVA radiation emitting lamp within 2 minutes and in sunlight within 5 minutes.
  
2. (Currently Amended) A primer coating composition according to claim 1 wherein the compound [A] (a) is selected from the group consisting of 1-octene, 1-hexene, 1-decene, vinyl acetate, styrene, alpha-methylstyrene, p-methylstyrene, esters of methacrylic acid and esters of acrylic acid and mixtures thereof.
  
3. (Currently Amended) A primer coating according to claim 1 wherein compound [A] (a) is selected from the group consisting of butyl acrylate, t-butyl acrylate, isobornyl acrylate, isodecyl acrylate, 2-ethylhexyl acrylate, lauryl acrylate, cyclohexyl acrylate and octyl acrylate and mixtures thereof.
  
4. (Currently Amended) A primer coating composition according to claim 1 wherein compound [B] b is selected from the group consisting of ~~urethane~~ acrylates, ~~urethane~~ diacrylates, ~~urethane~~ triacrylates, ~~poly tetra-functional urethane~~ acrylates and hexa functional ~~urethane~~ acrylates and mixtures thereof.
  
5. (Currently Amended) A primer coating according to claim 1 wherein compound [B] b is selected from the group consisting of hexanediol diacrylate, tripropyleneglycol diacrylate, trimethylolpropane triacrylate, alkoxylated trimethylolpropane triacrylate, pentaerythritol triacrylate, pentaerythritol tetraacrylate, dipentaerythritol

hexaacrylate, urethane acrylates and unsaturated polyesters, and mixtures thereof.

6. (Currently Amended) A primer coating according to claim 1 wherein compound [B] b is selected from the group consisting of di-functional, and polytetra-functional and hexa-functional urethane acrylates and mixtures thereof.
7. (Original) A primer coating composition according to claim 1 wherein the pigment to binder ratio is between 0.8 and 2.0.
8. (Original) A primer coating composition according to claim 1 wherein the pigment to binder ratio is between 1.2 and 1.8.
9. (Original) A primer coating composition according to claim 1 wherein the photoinitiator comprises a compound selected from the group consisting of acyl phosphine oxides and benziketals.
10. (Original) A primer coating composition according to claim 1 wherein said coating is cured to a tack free surface by 5 minute exposure to outdoor light having an intensity of 45-65 mJoules/cm<sup>2</sup> and demonstrates 95% post humidity test adhesion.
11. (Currently Amended) A process for applying a primer coating composition to a substrate comprising
  - A. applying a UV radiation curable primer to a substrate;
  - B. curing the primer with a source selected from the group consisting of one or more UV lamps having a UV-B:UV-A ratio of 1:1 or less, and natural outdoor light having a wavelength between 320 and 430 nm, and mixtures thereof, to obtain a tack free surface after 2-5 minutes.wherein the UV radiation curable primer comprises
  - a. 5 to 50 % by weight of one or more compounds containing one ethylenically unsaturated free-radically polymerizable group per molecule,

- b. 5 to 50% by weight of one or more compounds containing two or more ethylenically unsaturated free radically polymerizable groups per molecule,
  - c. 1.0 to 60% by weight of one or more pigments, fillers and or dyes,
  - d. 0.1 to 0.95 % by weight photoinitiators,
  - e. 0 to 20% by weight of volatile organic solvent and
  - f. 0.1 to 10% by weight of additives.
12. (Currently Amended) A process according to claim 11 wherein the coating applied comprises compound [A] (a) is selected from the group consisting of 1-octene, 1-hexene, 1-decene, vinyl acetate, styrene, alpha-methylstyrene, p-methylstyrene, esters of methacrylic acid and esters of acrylic acid and mixtures thereof.
13. (Currently Amended) A process according to claim 11 wherein the coating applied comprises compound [A] (a) selected from butyl acrylate, t-butyl acrylate, isobornyl acrylate, isodecyl acrylate, 2-ethylhexyl acrylate, lauryl acrylate, cyclohexyl acrylate and octyl acrylate and mixtures thereof.
14. (Currently Amended) A process according to claim 11 wherein the coating applied comprises compound [B] (b) selected from the group consisting of ~~urethane acrylates~~, urethane diacrylates, tri-functional urethane acrylates, and polytetrafunctional urethane acrylates and hexa-functional urethane acrylates and mixtures thereof.
15. (Original) A process according to claim 11 wherein the coating applied comprises a pigment to binder ratio between 0.8 and 2.0.
16. (Original) A process according to claim 11 wherein the coating applied comprises a pigment to binder ratio between 1.2 and 1.8.